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30 April 1956

MEMORANDUM FOR: Project Director

SUBJECE : Report from Mr. C.L. Johnson on Project GUSTO

developments in the design of GUNTO Model II. His report was quite discouraging at first. Information glossed by Mr. Mal George in his contact with Corning indicated the possibility of getting high strength material from that company in the near future was very doubtful. Based on the state of the art as it exists today, Mally desired that more than a maximum of 30% to 30% gain strength-vice was possible.

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- 2. Kelly is therefore of the opinion that enterial which could be used in GUSTO is pretty much limited to what is presently available through and similar sources. He has come to the conclusion that such enterial would lead to a structure which is not competetive with metal and, therefore, that the desired range and altitude would be most difficult, if not impossible, to achieve. In addition, his proposed configuration for Model II has serodynamic problems. He has been experimenting with alterations to this configuration which involve no tail essenbly, essentially a flying wing, and has not been able in his own mind to arrive at a suitable configuration, with or vithout tail, which is would consider serodynamically stable and capable of achieving minder regulrements. The above bears out what Col. Gibbs reported as it result of his recent is esting with felly.
- it appears marginal at this time and take a look at another approach. Such approach would involve a configuration capable of 3 1/2 the specific of the ACMATCHE vehicle and an increase of approximately 25% in many statute. Such RAIMATCHE vehicle and an increase of approximately 25% in many statute. Such RAIMATCHE vehicle and an increase of approximately 25% in many statute. Such RAIMATCHE vehicle and an increase of approximately 25% in many statute. Such RAIMATCHE vehicle and an increase of approximately 25% in many statute. Such RAIMATCHE vehicle and an investigation of the feasibility of this approach while at the same time continuing investigations into

GUSTO Model II. He was sutherized to proceed on this path and to report to you on its possibilities no later than 16 May. I subsequently discussed this decision with Gol. Gibbs who was in full agreement with some

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- I inquired whether he planned to re-open consideration of the Model I OUSTO. You will remember that the approach on Model II GUSTO was that every consideration would be given to such requirements and hopefully, make would attempt to design around such requirements and hopefully, make the aircraft fly at altitude. This approach now appears impractical and some compromise between the two requirements would obviously have to be made. Kelly was pessimistic, from information available to him, as to whether or not would be able to handle his end of the Model I GUSTO but agreed that this might be the only feasible approach. The other alternative is, of course, to attempt to achieve greater speed and altitude with correspondingly less need for absolute RAIMHOW protection.
- for a briefing. He will be prepared to see you on the 19th or on the morning of the 16th to give you a full report on his investigations to date on Model II GUSTO as well as a preliminary report on what he thinks is possible in the new higher altitude, higher speed approach. Since you will be in San Francisco on the 14th and since your plane, as I understand them, contemplate returning to D.C. via Los Angeles, you may desire to return to D.C. direct from San Francisco overnight Wednesday in order to see Kelly here on Thursday unless you have other reasons for planning to return via Los Angeles. In the latter case you probably would not be in D.C. until Friday norming and the meeting with Melly would have to be scheduled accordingly. 25X1A9a
- and suggested be might want to re-open his thinking in connection with RAISEN problems on Model I GRETO. I also indicated to him that Helly desires to briefly look at another approach to the problem. I gathered that Frank's rest-tion to the newest approach was favorable. I presume you would desire to have Dr. Rodgers and portupe Norm Taylor at our neeting with Helly on the 15th or 16th but have made no fire plans for their extendance at

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such a meeting. Noth will, of course, be in Washington on the Stin of May for reasons stated in smother memorandum

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